

What is claimed is:

1. A manipulationproof electromagnet arrangement for operating a switching device, in particular a coupling in an electronic locking cylinder, having an electromagnet which has at least one coil and one armature which can be moved by means of the coil from a rest position in an axial direction to a switching position, with the electromagnet arrangement having magnetic security means which respond to an external magnetic field, which originates from a manipulation location outside the electromagnet arrangement, such that any movement of the armature to the switching position is constrained, wherein the magnetic security means are arranged in a region between that end of the armature which faces the switching position in the rest position, and the manipulation location.
2. The electromagnet arrangement of claim 1, wherein the magnetic security means have a reed switch which is arranged between that end of the armature which faces the switching position and the manipulation location and is connected to a control means which prevent any movement of the armature to the switching position when the reed switch is subject to the external magnetic field.
3. The electromagnet arrangement of claim 2, wherein the control means prevent the movement of the armature when an external magnetic field is present, in that the coil is driven such that the electromagnet actively holds the armature in the rest position.
4. The electromagnet arrangement of claim 2, wherein the control means prevent the movement of the armature when an external magnetic field is present in that the control means drive a bolt mechanism which acts transversely with respect to the axial direction and holds the armature in an interlocking manner in the rest position.

5. The electromagnet arrangement of claim 1, wherein the magnetic security means have a passive moving soft-magnetic locking element, which is drawn by the external magnetic field from a nominal position, which does not influence the capability of the armature to move, into the path of the armature so that the armature is held in an interlocking manner in the rest position.
6. The electromagnet arrangement of claim 5, wherein the soft-magnetic locking element is held in the nominal position by the force of gravity.
7. The electromagnet arrangement of claim 5, wherein the soft-magnetic blocking element has an associated soft-magnetic antenna element which is arranged fixed to the housing in a region between the external magnetic field and the soft-magnetic blocking element.
8. The electromagnet arrangement of claim 7, in which the antenna element is a cover section of a housing of the electromagnet arrangement.
9. The electromagnet arrangement of claim 5, wherein the soft-magnetic blocking element is in the form of a ball.
10. The electromagnet arrangement of claim 5, wherein the soft-magnetic blocking element is mounted such that it can move in a space which is formed by a housing section composed of paramagnetic or diamagnetic material.
11. The electromagnet arrangement of claim 5, wherein the soft-magnetic blocking element is mounted in an annular space in the nominal position.

12. The electromagnet arrangement of claim 5, wherein the soft-magnetic blocking element has an associated soft-magnetic antenna element which is arranged fixed to the housing in a region between the external magnetic field and the soft-magnetic blocking element, the soft-magnetic blocking element is mounted such that it can move in a space which is formed by a housing section composed of paramagnetic or diamagnetic material and wherein the soft-magnetic antenna element is aligned with an inner wall of the paramagnetic or diamagnetic housing section.
13. An electronic locking cylinder having a coupling for coupling a locking bit to a shaft, and having an electromagnet arrangement for operating the coupling, wherein the electromagnet arrangement is a manipulation proof electromagnet arrangement for operating said coupling, having an electromagnet, which has at least one coil and one armature which can be moved by means of the coil from a rest position in an axial direction to a switching position, with the electromagnet arrangement having magnetic security means which respond to an external magnetic field, which originates from a manipulation location outside the electromagnet arrangement, such that any movement of the armature to the switching position is constrained, wherein the magnetic security means are arranged in a region between that end of the armature which faces the switching position in the rest position, and the manipulation location.
14. A method for preventing manipulation of an electromagnet arrangement which contains an electromagnet which has at least one coil and one armature which can be moved by means of the coil from a rest position in an axial direction to a switching position, with the electromagnet arrangement having magnetic security means between that end of the armature which faces the switching position in the rest position and a manipulation location, which security means respond to an external magnetic field which originates from the manipulation location outside the electromagnet arrangement, such that any movement of the armature to the switching position is constrained.